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1987 MONTANA COMMERCIAL FERTILIZER REPORT

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(406) 994-3383

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Mary Verwolf, Chemist
Bill Wheeler, Lab Technician

This report consists of the following sections:

Fertilizer Analyses. . . . . Pages 1 - 27

Statistical. . . . . Pages 28 - 30

Abbreviations Used:

Phosphate Denotes P205 . . . . .Available Phosphoric Acid

Potash Denotes K20 . . . . . Soluble Potash

ppm . . . . . Parts Per Million

* . . . . . .Deficiency

MANUFACTURER

AEI CORPORATION
1298 EAST FRONTAGE ROAD
POCATELLO,ID 83202

PKZ 0-18-3.5 — SAMPLED IN HAVRE — SAMPLE # 0608

ANALYSIS	CLAIMED	FOUND	
PHOSPHATE	18%	15.8%	*
POTASH	3.5%	5.9%	
SULFUR	5%	5.2%	
ZINC	7%	8.7%	
IRON	0.5%	0.34%	*

MANUFACTURER

AG WISE INC
P.O.BOX 109
KREMLIN,MT 59601

BLENDED LIQUID FERTILIZER 22-11-0 — SAMPLED IN KREMLIN — SAMPLE # 0653

ANALYSIS	CLAIMED	FOUND	
NITROGEN	22%	19.7%	*
PHOSPHATE	11%	11.6%	

LIQUID FERTILIZER 19-9-0 — 4-14-87 — SAMPLED IN KREMLIN — SAMPLE # 0609

ANALYSIS	CLAIMED	FOUND
NITROGEN	19%	19.2%
PHOSPHATE	9%	10.4%

LIQUID FERTILIZER BLEND 20-10-0 — SAMPLED IN KREMLIN — SAMPLE # 0674

ANALYSIS	CLAIMED	FOUND
NITROGEN	20%	19.6%
PHOSPHATE	10%	9.9%

LIQUID FERTILIZER BLEND 20-10-0 — SAMPLED IN MALTA — SAMPLE # 1891

ANALYSIS	CLAIMED	FOUND
NITROGEN	20%	19.3%
PHOSPHATE	10%	10.0%
SULFUR	NO CLAIM	10.5%

MANUFACTURER

AGRI BASICS CO
P.O.BOX 112
BELGRADE,MT 59714

AGRI BASICS CO - BELGRADE CONTINUED

BLENDED FERTILIZER 25-11.2-6.7 SAMPLED IN BELGRADE SAMPLE # 0391

ANALYSIS	CLAIMED	FOUND
NITROGEN	25%	26.6%
PHOSPHATE	11.2%	10.3%
POTASH	6.7%	6.7%

BLENDED FERTILIZER 25-11.2-6.7 SAMPLED IN BELGRADE SAMPLE # 0392

ANALYSIS	CLAIMED	FOUND
NITROGEN	25%	25.0%
PHOSPHATE	11.2%	11.9%
POTASH	6.7%	8.0%

MANUFACTURER

AGRI BASICS CO
P.O.BOX 1431
GREAT FALLS,MT 59403

MIXED MONOAMMONIUM PHOSPHATE 11-52-0 SAMPLED IN GREAT FALLS SAMPLE # 0617

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.0%
PHOSPHATE	52%	52.3%

MANUFACTURER

AGRI BASICS CO
P.O.BOX 67
HAVRE,MT 59501

BLENDED FERTILIZER 21-21-14 4-14-87 SAMPLED IN HAVRE SAMPLE # 0612

ANALYSIS	CLAIMED	FOUND
NITROGEN	21%	20.9%
PHOSPHATE	21%	21.1%
POTASH	14%	15.4%

MANUFACTURER

AGRI BASICS CO
P.O.BOX 577
WOLF POINT,MT 59201

BLENDED FERTILIZER 31.8-21.2-0 SAMPLED IN WOLF POINT SAMPLE # 1886

ANALYSIS	CLAIMED	FOUND
NITROGEN	31.8%	31.2%
PHOSPHATE	21.2%	23.4%

AGRI BASICS CO - WOLF POINT CONTINUED

DIAMMONIUM PHOSPHATE 18-46-0 — SAMPLED IN CIRCLE — SAMPLE # 1883

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.2%
PHOSPHATE	46%	47.2%

UREA CONTAMINATED WITH PHOSPHATE & POTASH — SAMPLED IN WOLF POINT — SAMPLE # 1887

ANALYSIS	CLAIMED	FOUND
NITROGEN	46%	44.9% *

MANUFACTURER

AGRIBASICS CO

GERALDINE,MT 59446

LIQUID FERTILIZER 32-0-0 — SAMPLED IN GERALDINE — SAMPLE # 1850

ANALYSIS	CLAIMED	FOUND
NITROGEN	32%	31.7%

LIQUID FERTILIZER 28-0-0 4-17-87 — SAMPLED IN GERALDINE — SAMPLE # 0615

ANALYSIS	CLAIMED	FOUND
NITROGEN	28%	27.5%

MANUFACTURER

AGRICO CHEMICAL CO
P.O.BOX 3166
TULSA,OK 74101

MONOAMMONIUM PHOSPHATE 11-52-0 — SAMPLED IN CONRAD — SAMPLE # 0625

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.3%
PHOSPHATE	52%	52.4%

MANUFACTURER

BAY ZINC COMPANY, INC
P.O.BOX 167
MOXEE CITY,WA 98936

BLU-MIN ZINC 18% — SAMPLED IN TOWNSEND — SAMPLE # 1815

ANALYSIS	CLAIMED	FOUND
SULFUR	7%	10.5%
ZINC	18%	24%
MANGANESE	1.2%	1.1%
IRON	12%	12.9%

MANUFACTURER

C.I.L. INC
P.O.BOX 250
CARSELAND,ALBT T0J 0M0
CANADA

AMMONIUM NITRATE — SAMPLED IN WHITE SULFUR SP — SAMPLE # 1742

ANALYSIS	CLAIMED	FOUND
NITROGEN	34%	34.4%

MANUFACTURER

CANADIAN FERTILIZERS LTD

MEDICINE HAT,ALBT
CANADA

UREA 46-0-0 — SAMPLED IN TOWNSEND — SAMPLE # 1853

ANALYSIS	CLAIMED	FOUND
NITROGEN	46%	46.4%

MANUFACTURER

CARGILL, INC
P.O.BOX 5602
MINNEAPOLIS,MN 55440

DIAMMONIUM PHOSPHATE 18-46-0 — SAMPLED IN LEWISTOWN — SAMPLE # 0899

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	17.9%
PHOSPHATE	46%	46.5%

GARDINER- DIAMMONIUM PHOSPHATE 18-46-0 — SAMPLED IN HAVRE — SAMPLE # 0651

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.0%
PHOSPHATE	46%	46.9%

GARDINER- MONOAMMONIUM PHOSPHATE 10-50-0 — SAMPLED IN HAVRE — SAMPLE # 0652

ANALYSIS	CLAIMED	FOUND
NITROGEN	10%	10.4%
PHOSPHATE	50%	51.4%

MONOAMMONIUM PHOSPHATE 10-50-0 — SAMPLED IN LEWISTOWN — SAMPLE # 0898

ANALYSIS	CLAIMED	FOUND
NITROGEN	10%	10.3%
PHOSPHATE	50%	51.1%

CARGILL, INC - MINNEAPOLIS CONTINUED

MONOAMMONIUM PHOSPHATE 10-50-0 3-16-87 SAMPLED IN HAVRE SAMPLE # 0607

ANALYSIS	CLAIMED	FOUND	
NITROGEN	10%	11.2%	
PHOSPHATE	50%	52.1%	

MONOAMMONIUM PHOSPHATE 11-52-0 3-16-87 SAMPLED IN HAVRE SAMPLE # 0606

ANALYSIS	CLAIMED	FOUND	
NITROGEN	11%	11.3%	
PHOSPHATE	52%	52.4%	

TRIPLE SUPER PHOSPHATE 0-45-0 SAMPLED IN BELGRADE SAMPLE # 1805

ANALYSIS	CLAIMED	FOUND	
PHOSPHATE	45%	46.0%	

MANUFACTURER

CASCADE FERTILIZER LTD
P.O.BOX 40
STANDARD,ALBT T0J 3G0
CANADA

LIQUID FERTILIZER 5-15-10 SAMPLED IN CONRAD SAMPLE # 0663

ANALYSIS	CLAIMED	FOUND	
NITROGEN	5%	3.5%	*
PHOSPHATE	15%	8.1%	*
POTASH	10%	5.6%	*

MANUFACTURER

CEMEX LTD/dba CEMEX FARM & HOM
1408 HIGHWAY 93 SOUTH
RONAN,MT 59864

BLENDED FERTILIZER SAMPLED IN RONAN SAMPLE # 1394

ANALYSIS	CLAIMED	FOUND	
NITROGEN	6.9%	8.8%	
PHOSPHATE	15.8%	13.13%	*
POTASH	31.7%	32.3%	
SULFUR	4.0%	6.8%	

MANUFACTURER

CEMEX SOIL SERVICE CENTER
1000 RR ALLEY
GLASGOW,MT 59230

CEMEX SOIL SERVICE CENTER - GLASGOW CONTINUED

BLENDED FERTILIZER — SAMPLED IN GLASGOW — SAMPLE # 1578

ANALYSIS	CLAIMED	FOUND
NITROGEN	28%	28.3%
PHOSPHATE	28%	28.5%

MANUFACTURER

CEMEX SOIL SERVICE CENTER
P.O.BOX 857
TOWNSEND,MT 59644

BLENDED FERTILIZER 25-10-0-7 — SAMPLED IN TOWNSEND — SAMPLE # 1813

ANALYSIS	CLAIMED	FOUND
NITROGEN	25%	25.3%
PHOSPHATE	10%	10.0%
SULFUR	7%	7.7%

MANUFACTURER

CEMEX/ LAND O'LAKES AGRONOMY
P.O.BOX 64089
ST. PAUL,MN 55164

AMMONIUM NITRATE 34-0-0 — SAMPLED IN COLUMBUS — SAMPLE # 1609

ANALYSIS	CLAIMED	FOUND
NITROGEN	34%	34.4%

CFI UREA 46-0-0 — SAMPLED IN BILLINGS — SAMPLE # 1863

ANALYSIS	CLAIMED	FOUND
NITROGEN	46%	46.3%

CHEVRON MONOAMMONIUM PHOSPHATE 11-52-0 — SAMPLED IN CIRCLE — SAMPLE # 1882

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.3%
PHOSPHATE	52%	52.9%

CONOCO AMMONIUM SULFATE 21-0-0-24 — SAMPLED IN TOWNSEND — SAMPLE # 1816

ANALYSIS	CLAIMED	FOUND
NITROGEN	21%	21.1%
SULFUR	24%	24.7%

DIAMMONIUM PHOSPHATE 18-46-0 — SAMPLED IN POWER — SAMPLE # 0670

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.0%
PHOSPHATE	46%	46.7%

CENEX/ LAND O'LAKES AGRONOMY - ST. PAUL CONTINUED

DIAMMONIUM PHOSPHATE 18-46-0 — SAMPLED IN MOLT — SAMPLE # 0891

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.0%
PHOSPHATE	46%	47.0%

DIAMMONIUM PHOSPHATE 18-46-0 — SAMPLED IN POWER — SAMPLE # 0623

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.0%
PHOSPHATE	46%	45.9%

DIAMMONIUM PHOSPHATE 18-46-0 — SAMPLED IN BILLINGS — SAMPLE # 0893

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.1%
PHOSPHATE	46%	46.8%

DIAMMONIUM PHOSPHATE 18-46-0 — SAMPLED IN WOLF POINT — SAMPLE # 1889

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.2%
PHOSPHATE	46%	46.2%

DIAMMONIUM PHOSPHATE 18-46-0 — 2-87 — SAMPLED IN HAVRE — SAMPLE # 0610

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.1%
PHOSPHATE	46%	46.4%

EXXON AMMONIUM NITRATE 34-0-0 — SAMPLED IN THREE FORKS — SAMPLE # 1823

ANALYSIS	CLAIMED	FOUND
NITROGEN	34%	34.5%

MONOAMMONIUM PHOSPHATE 11-51-0 — SAMPLED IN POWER — SAMPLE # 0622

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.0%
PHOSPHATE	51%	50.5%

MONOAMMONIUM PHOSPHATE 11-52-0 — SAMPLED IN TOWNSEND — SAMPLE # 1818

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.2%
PHOSPHATE	52%	51.6%

MONOAMMONIUM PHOSPHATE 11-52-0 — 4-21-87 — SAMPLED IN GERALDINE — SAMPLE # 0616

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.3%
PHOSPHATE	52%	52.2%

CENEX/ LAND O'LAKES AGRONOMY - ST. PAUL CONTINUED

FGS POTASH 0-0-60 — SAMPLED IN TOWNSEND — SAMPLE # 1817

ANALYSIS	CLAIMED	FOUND
POTASH	60%	62.8%

POTASH 0-0-60 — SAMPLED IN WOLF POINT — SAMPLE # 1301

ANALYSIS	CLAIMED	FOUND
POTASH	60%	60.9%

SIMPLOT DIAMMONIUM PHOSPHATE 18-46-0 — SAMPLED IN GREAT FALLS — SAMPLE # 0621

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.0%
PHOSPHATE	46%	46.0%

SIMPLOT MONOAMMONIUM PHOSPHATE 11-52-0 — SAMPLED IN GREAT FALLS — SAMPLE # 0619

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.0%
PHOSPHATE	52%	52.0%

SIMPLOT MONOAMMONIUM PHOSPHATE 11-52-0 — SAMPLED IN TOWNSEND — SAMPLE # 1854

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.1%
PHOSPHATE	52%	52.3%

TONG YANG FERROUS SULFATE-MONOHYDRATE — SAMPLED IN TOWNSEND — SAMPLE # 1814

ANALYSIS	CLAIMED	FOUND
IRON	31%	34.0%

TRIPLE SUPERPHOSPHATE 0-45-0 — SAMPLED IN COLUMBUS — SAMPLE # 1608

ANALYSIS	CLAIMED	FOUND
PHOSPHATE	45%	45.7%

UREA 46-0-0 — SAMPLED IN WOLF POINT — SAMPLE # 1390

ANALYSIS	CLAIMED	FOUND
NITROGEN	46%	46.5%

WCFL UREA 46-0-0 — SAMPLED IN GREAT FALLS — SAMPLE # 0620

ANALYSIS	CLAIMED	FOUND
NITROGEN	46%	46.4%

MANUFACTURER

CHEVRON CHEMICAL CO
940 HENSLEY ST
RICHMOND,CA 94804

32% LIQUID FERTILIZER — SAMPLED IN BELGRADE — SAMPLE # 1747

ANALYSIS	CLAIMED	FOUND
NITROGEN	32%	32.3%

AMMONIUM NITRATE 34-0-0 — SAMPLED IN DEER LODGE — SAMPLE # 1811

ANALYSIS	CLAIMED	FOUND
NITROGEN	34%	34.5%

AMMONIUM NITRATE 34-0-0 — SAMPLED IN MOIESE — SAMPLE # 1493

ANALYSIS	CLAIMED	FOUND
NITROGEN	34%	34.4%

AMMONIUM PHOSPHATE 16-20-0-15 — SAMPLED IN TOSTON — SAMPLE # 1826

ANALYSIS	CLAIMED	FOUND
NITROGEN	16%	16.4%
PHOSPHATE	20%	20.7%
SULFUR	15%	15.2%

DIAMMONIUM PHOSPHATE 18-46-0 — SAMPLED IN VALIER — SAMPLE # 0656

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.1%
PHOSPHATE	46%	46.6%

DIAMMONIUM PHOSPHATE 18-46-0 — SAMPLED IN WORDEN — SAMPLE # 1864

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.3%
PHOSPHATE	46%	47.4%

DIAMMONIUM PHOSPHATE 18-46-0 — SAMPLED IN GREAT FALLS — SAMPLE # 0672

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.1%
PHOSPHATE	46%	46.3%

FERTILIZER SOLUTION 32-0-0 — SAMPLED IN TOSTON — SAMPLE # 1828

ANALYSIS	CLAIMED	FOUND
NITROGEN	32%	30.7% *

CHEVRON CHEMICAL CO - RICHMOND CONTINUED

LIQUID FERTILIZER 28-0-0 — SAMPLED IN CONRAD — SAMPLE # 0665

ANALYSIS	CLAIMED	FOUND
NITROGEN	28%	28.0%

LIQUID FERTILIZER 32-0-0 — SAMPLED IN CONRAD — SAMPLE # 0662

ANALYSIS	CLAIMED	FOUND
NITROGEN	32%	31.8%

MONOAMMONIUM PHOSPHATE 11-51-0 — SAMPLED IN VALIER — SAMPLE # 0655

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.3%
PHOSPHATE	51%	52.9%

MONOAMMONIUM PHOSPHATE 11-52-0 — SAMPLED IN TOSTON — SAMPLE # 1827

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.3%
PHOSPHATE	52%	51.6%

MONOAMMONIUM PHOSPHATE 11-52-0 — SAMPLED IN HELENA — SAMPLE # 1852

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.4%
PHOSPHATE	52%	52.3%

MANUFACTURER

CO-OP SERVICE CENTER
1270 SOUTH 24th ST WEST
BILLINGS,MT 59102

CENEX MULTI-BLEND 24-8-8-4 — SAMPLED IN BILLINGS — SAMPLE # 0396

ANALYSIS	CLAIMED	FOUND
NITROGEN	24%	24.0%
PHOSPHATE	8%	7.3%
POTASH	8%	8.3%
SULFUR	4%	6.7%
IRON	0.63%	0.74%

MANUFACTURER

COMINCO AMERICAN INC
P.O.BOX 3087
SPOKANE,WA 99220

AMMONIUM NITRATE 34-0-0 — SAMPLED IN BELGRADE — SAMPLE # 1801

ANALYSIS	CLAIMED	FOUND
NITROGEN	34%	34.2%

COMINCO AMERICAN INC - SPOKANE CONTINUED

AMMONIUM PHOSPHATE 16-20-0-15 — SAMPLED IN CONRAD — SAMPLE # 0628

ANALYSIS	CLAIMED	FOUND
NITROGEN	16%	16.9%
PHOSPHATE	20%	19.9%
SULFUR	15%	15.7%

AMMONIUM SULFATE 20-0-0-24 — SAMPLED IN BELGRADE — SAMPLE # 1804

ANALYSIS	CLAIMED	FOUND
NITROGEN	20%	21.0%
SULFUR	24%	24.6%

AMMONIUM SULFATE 21-0-0-24 — SAMPLED IN MOIESE — SAMPLE # 1492

ANALYSIS	CLAIMED	FOUND
NITROGEN	21%	21.1%
SULFUR	24%	24.6%

ELEPHANT AMMONIUM NITRATE 34-0-0 — SAMPLED IN BILLINGS — SAMPLE # 0892

ANALYSIS	CLAIMED	FOUND
NITROGEN	34%	34.4%

MONOAMMONIUM PHOSPHATE 11-55-0 — SAMPLED IN CONRAD — SAMPLE # 0658

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.4%
PHOSPHATE	55%	54.9%

MONOAMMONIUM PHOSPHATE 11-55-0 — SAMPLED IN CONRAD — SAMPLE # 0629

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.3%
PHOSPHATE	55%	54.4%

MONOAMMONIUM PHOSPHATE 11-55-0 — SAMPLED IN BELGRADE — SAMPLE # 1806

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.2%
PHOSPHATE	55%	54.7%

POTASH 0-0-60 — SAMPLED IN DEER LODGE — SAMPLE # 1812

ANALYSIS	CLAIMED	FOUND
POTASH	60%	62.1%

MANUFACTURER

CULBERTSON SUPPLY
P.O.BOX 625
CULBERTSON,MT 59218

BLENDED FERTILIZER 28-28-0 SAMPLED IN CULBERTSON SAMPLE # 1586

ANALYSIS	CLAIMED	FOUND	
NITROGEN	28%	28.2%	
PHOSPHATE	28%	27.9%	

MANUFACTURER

CUSTOM CROP CARE, INC
P.O.BOX 1535
CONRAD,MT 59425

BLENDED FERTILIZER SAMPLED IN CONRAD SAMPLE # 0635

ANALYSIS	CLAIMED	FOUND	
NITROGEN	23%	29.3%	
POTASH	27%	24.5%	*

MANUFACTURER

DILLON FERTILIZER CO
2100 HWY 91N
DILLON,MT 59725

BLENDED FERTILIZER 10.4-49.1-0-10.8 SAMPLED IN DILLON SAMPLE # 1831

ANALYSIS	CLAIMED	FOUND	
NITROGEN	10.4%	10.6%	
PHOSPHATE	49.1%	49.3%	
SULFUR	10.8%	6.6%	*

BLENDED FERTILIZER 29.3-13.25-0-1.69 SAMPLED IN DILLON SAMPLE # 1600

ANALYSIS	CLAIMED	FOUND	
NITROGEN	29.3%	29.2%	
PHOSPHATE	13.25%	14.9%	
SULFUR	1.69%	0.73%	*

MANUFACTURER

EQUITY SUPPLY CO
P.O.BOX 579
KALISPELL,MT 59901

BLENDED FERTILIZER SAMPLED IN KALISPELL SAMPLE # 1484

ANALYSIS	CLAIMED	FOUND
NITROGEN	17.0%	17.2%
PHOSPHATE	14.5%	16.8%
POTASH	12.8%	12.8%

EQUITY SUPPLY CO - KALISPELL CONTINUED

BLENDED FERTILIZER CONTINUED

ANALYSIS	CLAIMED	FOUND	
SULFUR	8.4%	9.2%	

BLENDED FERTILIZER — SAMPLED IN KALISPELL — SAMPLE # 1487

ANALYSIS	CLAIMED	FOUND	
NITROGEN	9.4%	9.6%	
PHOSPHATE	25%	21.9%	*
POTASH	14.4%	16.0%	
SULFUR	14.3%	15.0%	

BLENDED FERTILIZER — SAMPLED IN KALISPELL — SAMPLE # 1488

ANALYSIS	CLAIMED	FOUND
NITROGEN	11.6%	12.0%
PHOSPHATE	14.8%	14.9%
POTASH	18.7%	22.7%

BLENDED FERTILIZER — SAMPLED IN KALISPELL — SAMPLE # 1490

ANALYSIS	CLAIMED	FOUND	
NITROGEN	8.5%	7.6%	*
PHOSPHATE	40.6%	34.71%	*
SULFUR	19.8%	29.5%	

BLENDED FERTILIZER — SAMPLED IN KALISPELL — SAMPLE # 1491

ANALYSIS	CLAIMED	FOUND	
NITROGEN	8.5%	8.50%	
PHOSPHATE	40.6%	37.46%	*
SULFUR	19.8%	24.8%	

BLENDED FERTILIZER 29.17-10.92-0 — SAMPLED IN KALISPELL — SAMPLE # 1486

ANALYSIS	CLAIMED	FOUND	
NITROGEN	29.17%	27.0%	*
PHOSPHATE	10.92%	13.0%	

MANUFACTURER

ESTECH BRANDED FERTILIZERS
4060 EAST 26th STREET
LOS ANGELES,CA 90023

VIGORO- ROCKY MOUNTAIN LAWN FERTILIZER — SAMPLED IN MONTANA — SAMPLE # 1844

ANALYSIS	CLAIMED	FOUND
NITROGEN	22%	22.0%
PHOSPHORUS	4%	4.6%
POTASH	4%	4.5%

MANUFACTURER

EXXON CHEMICAL FERTILIZER CO
P.O.BOX 176
DUTTON,MT 59433

AMMONIUM NITRATE 34-0-0 — SAMPLED IN DILLON — SAMPLE # 1602

ANALYSIS	CLAIMED	FOUND
NITROGEN	34%	34.5%

AMMONIUM NITRATE 34-0-0 — SAMPLED IN BRIDGER — SAMPLE # 1855

ANALYSIS	CLAIMED	FOUND
NITROGEN	34%	34.3%

AMMONIUM PHOSPHATE 16-20-0-14 — SAMPLED IN BELGRADE — SAMPLE # 1746

ANALYSIS	CLAIMED	FOUND
NITROGEN	16%	16.0%
PHOSPHATE	20%	21.1%
SULFUR	14%	14.8%

AMMONIUM PHOSPHATE 16-20-0-15 — SAMPLED IN CONRAD — SAMPLE # 0666

ANALYSIS	CLAIMED	FOUND
NITROGEN	16%	16.0%
PHOSPHATE	20%	21.0%
SULFUR	15%	15.0%

AMMONIUM SULFATE 20.5-0-0-24 — SAMPLED IN BELGRADE — SAMPLE # 1802

ANALYSIS	CLAIMED	FOUND
NITROGEN	20.5%	20.4%
SULFUR	24%	24.4%

AMMONIUM SULFATE 20.5-0-0-24 — SAMPLED IN RYEGATE — SAMPLE # 1858

ANALYSIS	CLAIMED	FOUND
NITROGEN	20.5%	20.4%
SULFUR	24%	24.6%

AMMONIUM SULFATE 20.5-0-0-24 — SAMPLED IN WOLF POINT — SAMPLE # 1888

ANALYSIS	CLAIMED	FOUND
NITROGEN	20.5%	20.4%
SULFUR	24%	24.3%

DIAMMONIUM PHOSPHATE 18-46-0 — SAMPLED IN CONRAD — SAMPLE # 0626

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.1%
PHOSPHATE	46%	45.9%

EXXON CHEMICAL FERTILIZER CO - DUTTON CONTINUED

DIAMMONIUM PHOSPHATE 18-46-0 10-86 SAMPLED IN GREAT FALLS SAMPLE # 0618

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	17.9%
PHOSPHATE	46%	46.1%

ENGRO AMMONIUM NITRATE 34-0-0 SAMPLED IN MOORE SAMPLE # 0902

ANALYSIS	CLAIMED	FOUND
NITROGEN	34%	34.0%

ENGRO MONOAMMONIUM PHOSPHATE 12-51-0 SAMPLED IN WILSAL SAMPLE # 1744

ANALYSIS	CLAIMED	FOUND
NITROGEN	12%	12.0%
PHOSPHATE	51%	51.9%

MONOAMMONIUM PHOSPHATE 12-51-0 SAMPLED IN GERALDINE SAMPLE # 0614

ANALYSIS	CLAIMED	FOUND
NITROGEN	12%	12.0%
PHOSPHATE	51%	50.9%

MONOAMMONIUM PHOSPHATE 12-51-0 SAMPLED IN CONRAD SAMPLE # 0664

ANALYSIS	CLAIMED	FOUND
NITROGEN	12%	12.1%
PHOSPHATE	51%	51.6%

MONOAMMONIUM PHOSPHATE 12-51-0 SAMPLED IN WOLF POINT SAMPLE # 1884

ANALYSIS	CLAIMED	FOUND
NITROGEN	12%	12.1%
PHOSPHATE	51%	51.5%

MANUFACTURER

FARMERS UNION ASSOCIATION
P.O.BOX 385
HARDIN,MT 59034

BLENDED FERTILIZER SAMPLED IN HARDIN SAMPLE # 0966

ANALYSIS	CLAIMED	FOUND
NITROGEN	35%	35.0%
PHOSPHATE	17.5%	17.7%

MANUFACTURER

FARMERS UNION EXCHANGE
55 4th AVE EAST
KALISPELL,MT 59901

BLENDED FERTILIZER — SAMPLED IN KALISPELL — SAMPLE # 1483

ANALYSIS	CLAIMED	FOUND
NITROGEN	16.4%	16.4%
PHOSPHATE	18.6%	18.1%
POTASH	10.9%	12.1%

BLENDED FERTILIZER — SAMPLED IN KALISPELL — SAMPLE # 1485

ANALYSIS	CLAIMED	FOUND
NITROGEN	23.9%	25.3%
PHOSPHATE	11.3%	11.5%
POTASH	6.7%	6.6%
SULFUR	3.3%	3.4%

BLENDED FERTILIZER — SAMPLED IN KALISPELL — SAMPLE # 1489

ANALYSIS	CLAIMED	FOUND
NITROGEN	27.6%	27.9%
PHOSPHATE	14.2%	13.6%

MANUFACTURER

FARMERS UNION OIL CO
HWY 2 EAST
WOLF POINT,MT 59201

BLENDED FERTILIZER 28-28-0 — SAMPLED IN WOLF POINT — SAMPLE # 1881

ANALYSIS	CLAIMED	FOUND
NITROGEN	28%	28.0%
PHOSPHATE	28%	30.1%

MANUFACTURER

FARMERS UNION OIL CO
P.O.BOX 156
WORDEN,MT 59088

BLENDED FERTILIZER — SAMPLED IN WORDEN — SAMPLE # 0895

ANALYSIS	CLAIMED	FOUND	
NITROGEN	29.4%	27.3%	*
PHOSPHATE	6.9%	11.0%	
POTASH	13.8%	14.0%	
ZINC	0.69%	1.14%	

MANUFACTURER

HOWARD JOHNSON'S ENTERPRISES
161 W.WISCONSIN AVE, STE 4006
MILWAUKEE,WI 53203

LAWN GROOM LAWN FOOD 26-3-3 — SAMPLED IN MONTANA — SAMPLE # 1845

ANALYSIS	CLAIMED	FOUND
NITROGEN	26%	26.5%
PHOSPHATE	3%	3.0%
POTASH	3%	3.2%
IRON	0.7%	0.70%

MANUFACTURER

IMC
421 E. HAWLEY ST
MUNDELEIN,IL 60060

DIAMMONIUM PHOSPHATE 18-46-0 — SAMPLED IN CIRCLE — SAMPLE # 1302

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.1%
PHOSPHATE	46%	46.5%

POTASH 0-0-60 — SAMPLED IN BILLINGS — SAMPLE # 1860

ANALYSIS	CLAIMED	FOUND
POTASH	60%	59.9%

MANUFACTURER

J.R.SIMPLOT CO
P.O.BOX 912
POCATELLO,ID 83204

AMMONIUM NITRATE 34-0-0 — SAMPLED IN DILLON — SAMPLE # 1599

ANALYSIS	CLAIMED	FOUND
NITROGEN	34%	34.3%

AMMONIUM PHOSPHATE 16-20-0-15 — SAMPLED IN BIG TIMBER — SAMPLE # 0906

ANALYSIS	CLAIMED	FOUND
NITROGEN	16%	15.3%
PHOSPHATE	20%	21.4%
SULFUR	15%	14.9%

AMMONIUM PHOSPHATE 16-20-0 3-1-87 — SAMPLED IN HAVRE — SAMPLE # 0611

ANALYSIS	CLAIMED	FOUND
NITROGEN	16%	16.3%
PHOSPHATE	20%	20.1%

J.R.SIMPLOT CO - POCATELLO CONTINUED

AMMONIUM PHOSPHATE 16-20-0-15 — SAMPLED IN BRADY — SAMPLE # 0668

ANALYSIS	CLAIMED	FOUND
NITROGEN	16%	15.9%
PHOSPHATE	20%	20.6%
SULFUR	15%	15.3%

AMMONIUM PHOSPHATE 16-20-0-15 — SAMPLED IN DEER LODGE — SAMPLE # 1810

ANALYSIS	CLAIMED	FOUND
NITROGEN	16%	16.1%
PHOSPHATE	20%	20.3%
SULFUR	15%	15.5%

CFI UREA 46-0-0 — SAMPLED IN DILLON — SAMPLE # 1833

ANALYSIS	CLAIMED	FOUND
NITROGEN	46%	46.3%

DIAMMONIUM PHOSPHATE 18-46-0 — SAMPLED IN LIVINGSTON — SAMPLE # 1745

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.0%
PHOSPHATE	46%	46.9%

DIAMMONIUM PHOSPHATE 18-46-0 — SAMPLED IN WOLF POINT — SAMPLE # 1885

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.1%
PHOSPHATE	46%	46.3%

DIAMMONIUM PHOSPHATE 18-46-0 — SAMPLED IN CONRAD — SAMPLE # 0661

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.0%
PHOSPHATE	46%	46.5%

DIAMMONIUM PHOSPHATE 18-46-0 — SAMPLED IN BELGRADE — SAMPLE # 1748

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	18.0%
PHOSHATE	46%	47.1%

LIQUID FERTILIZER 28-0-0 — SAMPLED IN MALTA — SAMPLE # 1892

ANALYSIS	CLAIMED	FOUND
NITROGEN	28%	26.8%

MONOAMMONIUM PHOSPHATE 11-52-0 — SAMPLED IN CUT BANK — SAMPLE # 0659

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.3%
PHOSPHATE	52%	52.5%
SULFUR	NO CLAIM	2.3%

J.R.SIMPLOT CO - POCATELLO CONTINUED

MONOAMMONIUM PHOSPHATE 11-52-0 — SAMPLED IN FORT BENTON — SAMPLE # 0673

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.1%
PHOSPHATE	52%	52.6%

MONOAMMONIUM PHOSPHATE 11-52-0 — SAMPLED IN DILLON — SAMPLE # 1601

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.2%
PHOSPHATE	52%	50.9%

MONOAMMONIUM PHOSPHATE 11-52-0 — SAMPLED IN CONRAD — SAMPLE # 0627

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.2%
NITROGEN	11%	11.2%
PHOSPHATE	52%	52.0%

MONOAMMONIUM PHOSPHATE 11-52-0 — SAMPLED IN FORT BENTON — SAMPLE # 0650

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.3%
PHOSPHATE	52%	52.8%

MONOAMMONIUM PHOSPHATE 11-52-0 — SAMPLED IN CONRAD — SAMPLE # 0660

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.3%
PHOSPHATE	52%	52.4%
SULFUR	NO CLAIM	2.3%

MONOAMMONIUM PHOSPHATE 11-52-0 — SAMPLED IN LEWISTOWN — SAMPLE # 1743

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.2%
PHOSPHATE	52%	52.8%

MONOAMMONIUM PHOSPHATE 11-52-0 — SAMPLED IN BELGRADE — SAMPLE # 1803

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.4%
PHOSPHATE	52%	51.9%

MONOAMMONIUM PHOSPHATE 11-52-0 — SAMPLED IN DILLON — SAMPLE # 1832

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.2%
PHOSPHATE	52%	52.4%
SULFUR	NO CLAIM	1.9%

J.R.SIMPLOT CO - POCATELLO CONTINUED

MONOAMMONIUM PHOSPHATE 11-52-0 — SAMPLED IN DENTON — SAMPLE # 1851

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.3%
PHOSPHATE	52%	53.1%

TRIPLE SUPER PHOSPHATE 0-45-0 — SAMPLED IN DILLON — SAMPLE # 1598

ANALYSIS	CLAIMED	FOUND
PHOSPHATE	45%	46.2%

TRIPLE SUPER PHOSPHATE 0-45-0 — SAMPLED IN BELGRADE — SAMPLE # 0393

ANALYSIS	CLAIMED	FOUND
PHOSPHATE	45%	45.1%

TRIPLE SUPER PHOSPHATE 0-45-0 — SAMPLED IN MOIESE — SAMPLE # 1494

ANALYSIS	CLAIMED	FOUND
PHOSPHATE	45%	45.0%

TRIPLE SUPER PHOSPHATE 0-45-0 — SAMPLED IN BILLINGS — SAMPLE # 1861

ANALYSIS	CLAIMED	FOUND
PHOSPHATE	45%	46.7%

UREA-AMMONIUM NITRATE SOLN — SAMPLED IN BELGRADE — SAMPLE # 1809

ANALYSIS	CLAIMED	FOUND
NITROGEN	32%	31.9%

MANUFACTURER

KALIUM CHEM CORP- DIV P.P.G.
ONE P.P.G. PLACE 34 SOUTH
PITTSBURGH,PA 15272

POTASH 0-0-60 — SAMPLED IN EDGAR — SAMPLE # 1856

ANALYSIS	CLAIMED	FOUND
POTASH	60%	61.5%

MANUFACTURER

KERLEY CHEMICAL
P.O.BOX 6183
KENNEWICK,WA 99336

KERLEY CHEMICAL - KENNEWICK CONTINUED

AMMONIUM THIOSULFATE 12-0-0-26 — SAMPLED IN CONRAD — SAMPLE # 0631

ANALYSIS	CLAIMED	FOUND
NITROGEN	12%	12.8%
SULFUR	26%	25.9%

AMMONIUM THIOSULFATE 12-0-0-26 — SAMPLED IN CONRAD — SAMPLE # 0633

ANALYSIS	CLAIMED	FOUND
NITROGEN	12%	11.5%
SULFUR	26%	26.1%

AMMONIUM THIOSULFATE 12-0-0-26 — SAMPLED IN BELGRADE — SAMPLE # 1808

ANALYSIS	CLAIMED	FOUND
NITROGEN	12%	13.0%
SULFUR	26%	26.0%

MANUFACTURER

MEARS FERTILIZER
P.O.BOX 1271
EL DORADO,KS 67042

LIQUID FERTILIZER 32-0-0 — SAMPLED IN DILLON — SAMPLE # 1047

ANALYSIS	CLAIMED	FOUND	
NITROGEN	32%	29.8%	*

LIQUID FERTILIZER 10-34-0 — SAMPLED IN GERALDINE — SAMPLE # 0613

ANALYSIS	CLAIMED	FOUND
NITROGEN	10%	9.9%
PHOSPHATE	34%	34.2%

LIQUID FERTILIZER 10-34-0 — SAMPLED IN CONRAD — SAMPLE # 0630

ANALYSIS	CLAIMED	FOUND	
NITROGEN	10%	10.9%	
PHOSPHATE	34%	31.4%	*

LIQUID FERTILIZER 32-0-0 — SAMPLED IN DILLON — SAMPLE # 1849

ANALYSIS	CLAIMED	FOUND	
NITROGEN	32%	29.8%	*

MANUFACTURER

MOBIL MINING & MINERALS CO
P.O.BOX 26683
RICHMOND,VA 23261

DIAMMONIUM PHOSPHATE 18-46-0 — SAMPLED IN GLASGOW — SAMPLE # 1577

ANALYSIS	CLAIMED	FOUND
NITROGEN	18%	17.5%
PHOSPHATE	46%	45.7%

MANUFACTURER

NEW LIFE CO
P.O.BOX 164
GRASS RANGE,MT 59032

NEW LIFE SOIL AMENDMENT — SAMPLED IN GRASS RANGE — SAMPLE # 1750

ANALYSIS	CLAIMED	FOUND
SULFUR	7%	8.2%
CALCIUM	19%	20.8%

MANUFACTURER

NORTH PACIFIC TRADING CO
P.O.BOX 3915
PORTLAND,OR 97208

CENTRAL CANADIAN POTASH 0-0-60 — SAMPLED IN DUTTON — SAMPLE # 0669

ANALYSIS	CLAIMED	FOUND
POTASH	60%	59.9%

TEXAS GULF POTASH 0-0-60 — SAMPLED IN DILLON — SAMPLE # 1597

ANALYSIS	CLAIMED	FOUND
POTASH	60%	63.0%

WCFL AMMONIUM PHOSPHATE 16-20-0-15 — SAMPLED IN DILLON — SAMPLE # 0390

ANALYSIS	CLAIMED	FOUND
NITROGEN	16%	16.0%
PHOSPHATE	20%	20.4%
SULFUR	15%	15.1%

MANUFACTURER

P.P.G. CANADA INC (KALIUM DIV)
1200-1801 HAMILTON ST
REGINA,SASK S4P 4B5
CANADA

P.P.G. CANADA INC (KALIUM DIV) - REGINA CONTINUED

POTASH 0-0-62 — SAMPLED IN BELGRADE — SAMPLE # 1807

ANALYSIS	CLAIMED	FOUND
POTASH	62%	63.5%

POTASH 0-0-62 — SAMPLED IN MONTANA — SAMPLE # 1819

ANALYSIS	CLAIMED	FOUND
POTASH	62%	63.8%

MANUFACTURER

PACE MANUFACTURER CORP
P.O.BOX 558
KIRKLAND,WA 98033

LIFELINE RICH CREAM FERTILIZER 4-8-8 — SAMPLED IN GREAT FALLS — SAMPLE # 0605

ANALYSIS	CLAIMED	FOUND
NITROGEN	4%	4.2%
PHOSPHATE	8%	8.1%
POTASH	8%	8.4%
SULFUR	1%	1.1%

MANUFACTURER

PACIFEX INC
P.O.BOX 1070
BLACKFOOT,ID 83221

LIQUID FERTILIZER 32-0-0 — SAMPLED IN DILLON — SAMPLE # 1846

ANALYSIS	CLAIMED	FOUND	
NITROGEN	32%	29.5%	*

MANUFACTURER

POTASH CORP OF SASKATCHEWAN
410-22ND STREET EAST
SASKATOON,SASK S7K 5T7
CANADA

POTASH -POSSIBLE CONTAMINATION- — SAMPLED IN MOORE — SAMPLE # 0903

ANALYSIS	CLAIMED	FOUND
POTASH	60%	53.3%

POTASH 0-0-60 — SAMPLED IN RONAN — SAMPLE # 1396

ANALYSIS	CLAIMED	FOUND
POTASH	60%	64.4%

POTASH CORP OF SASKATCHEWAN - SASKATOON CONTINUED

POTASH 0-0-60 — SAMPLED IN BIG TIMBER — SAMPLE # 0907

ANALYSIS	CLAIMED	FOUND
POTASH	60%	61.1%

MANUFACTURER

RINGER CORPORATION
9959 VALLEY VIEW ROAD
MINNEAPOLIS,MN 55344

VEGETABLE GARDEN BOOSTER 5-6-6 — SAMPLED IN MONTANA — SAMPLE # 1842

ANALYSIS	CLAIMED	FOUND
NITROGEN	5%	5.8%
PHOSPHORUS	6%	5.9%
POTASH	6%	8.0%

MANUFACTURER

SELSIAB SOIL SERVICE
R.R. 5045
GREAT FALLS,MT 59401

AMMONIUM POLYPHOSPHATE 10-34-0 — SAMPLED IN GREAT FALLS — SAMPLE # 0671

ANALYSIS	CLAIMED	FOUND	
NITROGEN	10%	9%	*
PHOSPHATE	34%	34.2%	

LIQUID FERTILIZER 10-34-0 — SAMPLED IN CONRAD — SAMPLE # 0634

ANALYSIS	CLAIMED	FOUND	
NITROGEN	10%	9.0%	*
PHOSPHATE	34%	34.0%	

MANUFACTURER

SHERRITT FERTILIZER INC
7017 N.E.HIGHWAY 99, SUITE 106
VANCOUVER,WA 98665

AMMONIUM SULFATE 21-0-0-24 — SAMPLED IN BILLINGS — SAMPLE # 0894

ANALYSIS	CLAIMED	FOUND
NITROGEN	21%	21.1%
SULFUR	24%	24.8%

AMMONIUM SULFATE 21-0-0-24 — SAMPLED IN BILLINGS — SAMPLE # 1862

ANALYSIS	CLAIMED	FOUND
NITROGEN	21%	21.0%
SULFUR	24%	24.7%

SHERRITT FERTILIZER INC - VANCOUVER CONTINUED

UREA 46-0-0 — SAMPLED IN MONTANA — SAMPLE # 1820

ANALYSIS	CLAIMED	FOUND	
NITROGEN	46%	46.5%	

MANUFACTURER

STERN'S MIRACLE GRO PRODUCTS I
800 PORT WASHINGTON BLVD
PORT WASHINGTON,NY 11050

MIRACLE GRO FOR TOMATOES 18-18-21 — SAMPLED IN MONTANA — SAMPLE # 1843

ANALYSIS	CLAIMED	FOUND	
NITROGEN	18%	20.2%	
PHOSPHATE	18%	17.1%	*
POTASH	21%	20.9%	
ZINC	0.05%	0.15%	
MAGNESIUM	0.5%	0.26%	
MANGANESE	0.05%	0.29%	
IRON	0.1%	0.33%	
COPPER	0.05%	0.10%	

MANUFACTURER

TRI-ANGLE AG SUPPLY
P.O.BOX 1426
CONRAD,MT 59425

BLENDED LIQUID FERTILIZER 17-0-0 — SAMPLED IN CONRAD — SAMPLE # 0632

ANALYSIS	CLAIMED	FOUND
NITROGEN	17%	17.5%

MANUFACTURER

VALCO AGRI SERVICE INC
P.O.BOX 129
GLASGOW,MT 59230

BLENDED FERTILIZER 25-25-0 — SAMPLED IN GLASGOW — SAMPLE # 0805

ANALYSIS	CLAIMED	FOUND	
NITROGEN	25%	26.5%	
PHOSPHATE	25%	21.1%	*

MANUFACTURER

WESTERN CO-OPERATIVE FERTILIZE
P.O.BOX 2500
CALGARY,ALBT T2P 2N1
CANADA

WESTERN CO-OPERATIVE FERTILIZE - CALGARY CONTINUED

AMMONIUM NITRATE 34-0-0 — SAMPLED IN THREE FORKS — SAMPLE # 1825

ANALYSIS	CLAIMED	FOUND
NITROGEN	34%	33.9%

AMMONIUM PHOSPHATE 16-20-0 15 — SAMPLED IN CONRAD — SAMPLE # 0624

ANALYSIS	CLAIMED	FOUND
NITROGEN	16%	16.2%
PHOSPHATE	20%	20.0%
SULFUR	15%	15.4%

MONOAMMONIUM PHOSPHATE 11-51-0 — SAMPLED IN CUTBANK — SAMPLE # 0657

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.0%
PHOSPHATE	51%	51.1%

MONOAMMONIUM PHOSPHATE 11-51-0 — SAMPLED IN BRADY — SAMPLE # 0667

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.0%
PHOSPHATE	51%	50.9%

MONOAMMONIUM PHOSPHATE 11-51-0 — SAMPLED IN THREE FORKS — SAMPLE # 1749

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.0%
PHOSPHATE	51%	50.8%

MONOAMMONIUM PHOSPHATE 11-51-0 — SAMPLED IN COLUMBUS — SAMPLE # 1857

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.0%
PHOSPHATE	51%	50.9%

MONOAMMONIUM PHOSPHATE 11-51-0 — SAMPLED IN BROADVIEW — SAMPLE # 1859

ANALYSIS	CLAIMED	FOUND
NITROGEN	11%	11.0%
PHOSPHATE	51%	50.4%

MANUFACTURER

WESTLAND SEED & SUPPLY CO
1300 ROUND BUTTE ROAD WEST
RONAN,MT 59864

BLENDED FERTILIZER — SAMPLED IN RONAN — SAMPLE # 1393

ANALYSIS	CLAIMED	FOUND
PHOSPHATE	33.8%	30.29% *
SULFUR	4.5%	6.3%

WESTLAND SEED & SUPPLY CO - RONAN CONTINUED

BLENDED FERTILIZER 20-10-10 SAMPLED IN RONAN SAMPLE # 1495

ANALYSIS	CLAIMED	FOUND
NITROGEN	20%	20.5%
PHOSPHATE	10%	10.5%
POTASH	10%	9.9%

BLENDED FERTILIZER 20-10-10-6 SAMPLED IN RONAN SAMPLE # 1395

ANALYSIS	CLAIMED	FOUND
NITROGEN	20%	21.1%
PHOSPHATE	10%	10.0%
POTASH	10%	10.2%
SULFUR	6%	6.5%

1987 FERTILIZER ANALYSIS BREAKDOWN

Nutrient	# Analyzed	# Deficient	% Deficient
Nitrogen	154	13	8.4
Phosphate	117	11	9.4
Potash	35	2	5.7
Sulfur	42	2	4.8
Zinc	4	-	-
Magnesium	1	-	-
Manganese	2	-	-
Iron	6	1	
Calcium	1	-	-
Copper	1	-	-
	---	--	---
Total	363	29	8.0%

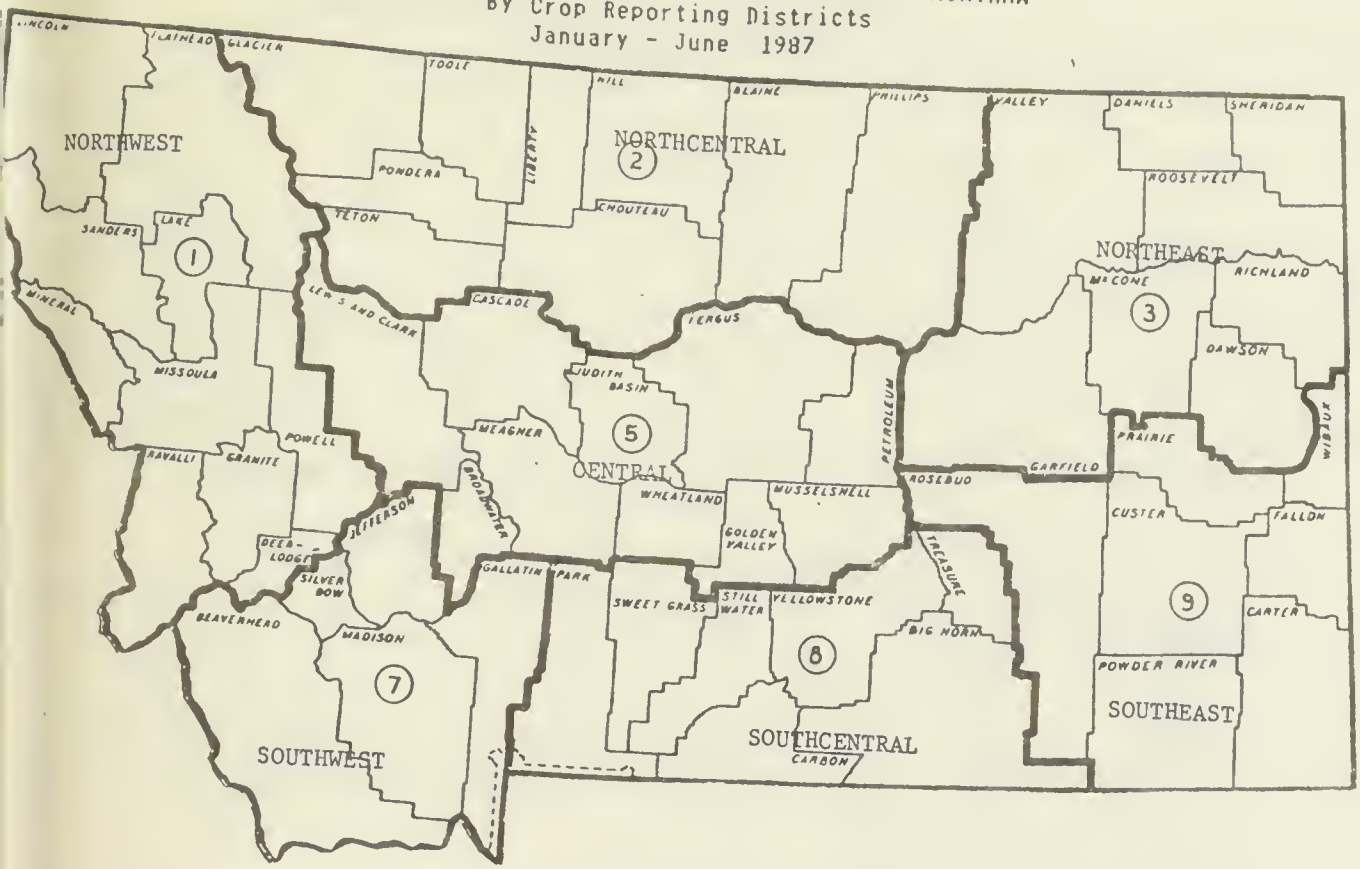
FERTILIZER SAMPLING

Year	# Samples Taken	# Samples Deficient	Deficient
1977	448	32	7.1
1978	533	30	5.6
1979	365	21	5.7
1980	506	27	5.3
1981	428	24	5.1
1982	607	41	6.7
1983	558	50	8.9
1984	379	58	15.3
1985	368	55	14.9
1986	228	43	18.9
1987	175	25	14.3

FERTILIZER TONNAGE

YEAR	TONNAGE
1972	226,939
1973	268,061
1974	219,197
1975	170,324
1976	283,925
1977	259,211
1978	301,487
1979	324,838
1980	295,958
1981	363,295
1982	384,387
1983	447,407
1984	406,567
1985	325,887
1986	337,626
1987	393,505

FERTILIZER AND FERTILIZER MATERIAL SOLD IN MONTANA
By Crop Reporting Districts
January - June 1987



STATEWIDE TOTAL	SOUTH WEST	NORTH WEST	SOUTH CENTRAL	CENTRAL	NORTH CENTRAL	SOUTH EAST	NORTH EAST	TOTALS
Anhydrous Ammonia	371	616	981	5049	8457	368	894	16736
Ammonium Nitrate	8427	3546	8432	10828	14904	1339	1289	48765
Ammonium Sulfate	541	1162	381	1688	1974	105	586	6437
Urea	1498	1162	2699	10267	20699	1443	8276	46044
Ammonium Thiosulfate	143	5	64	303	253	0	16	784
Nitrogen Sols. 32%	828	488	267	785	1894	0	0	4262
Nitrogen Sols. 28%	0	0	0	42	2211	67	1334	3654
Phosphorus Material	703	418	248	952	1946	443	361	5071
Potash Materials	1028	1916	1640	3085	3765	947	911	13292
Sulfur	5	74	66	159	286	14	143	747
DAP 18-46-0	1205	462	4443	3316	6575	2294	11301	29596
MAP 11-52-0	2419	1470	2526	10996	17246	566	4099	39322
APS 16-20-0	2474	2706	1039	1498	1130	115	59	9021
30-10-0	44	0	303	400	228	0	12	987
10-34-0	87	13	60	522	4019	29	392	5122
2-1-0 ratios (27-14-0)	83	142	106	649	1058	13	2	2053
1-1-0 ratios (23-23-0)	0	0	107	11	279	0	98	495
1-1-1 ratios (16-16-16)	0	423	6	419	202	0	49	1099
Micronutrients	4	46	14	453	6	29	63	615
Gypsum/Lime	0	200	40	0	0	5	1	246
Compost	0	927	0	0	0	0	0	927
Other	0	0	37	107	919	34	19	1116
TOTAL	19860	15776	23459	51529	88051	7811	29905	236391

1987 FERTILIZER ANALYSIS BREAKDOWN

Nutrient	# Analyzed	# Deficient	% Deficient
Nitrogen	154	13	8.4
Phosphate	117	11	9.4
Potash	35	2	5.7
Sulfur	42	2	4.8
Zinc	4	-	-
Magnesium	1	-	-
Manganese	2	-	-
Iron	6	1	
Calcium	1	-	-
Copper	1	-	-
Total	363	29	8.0%

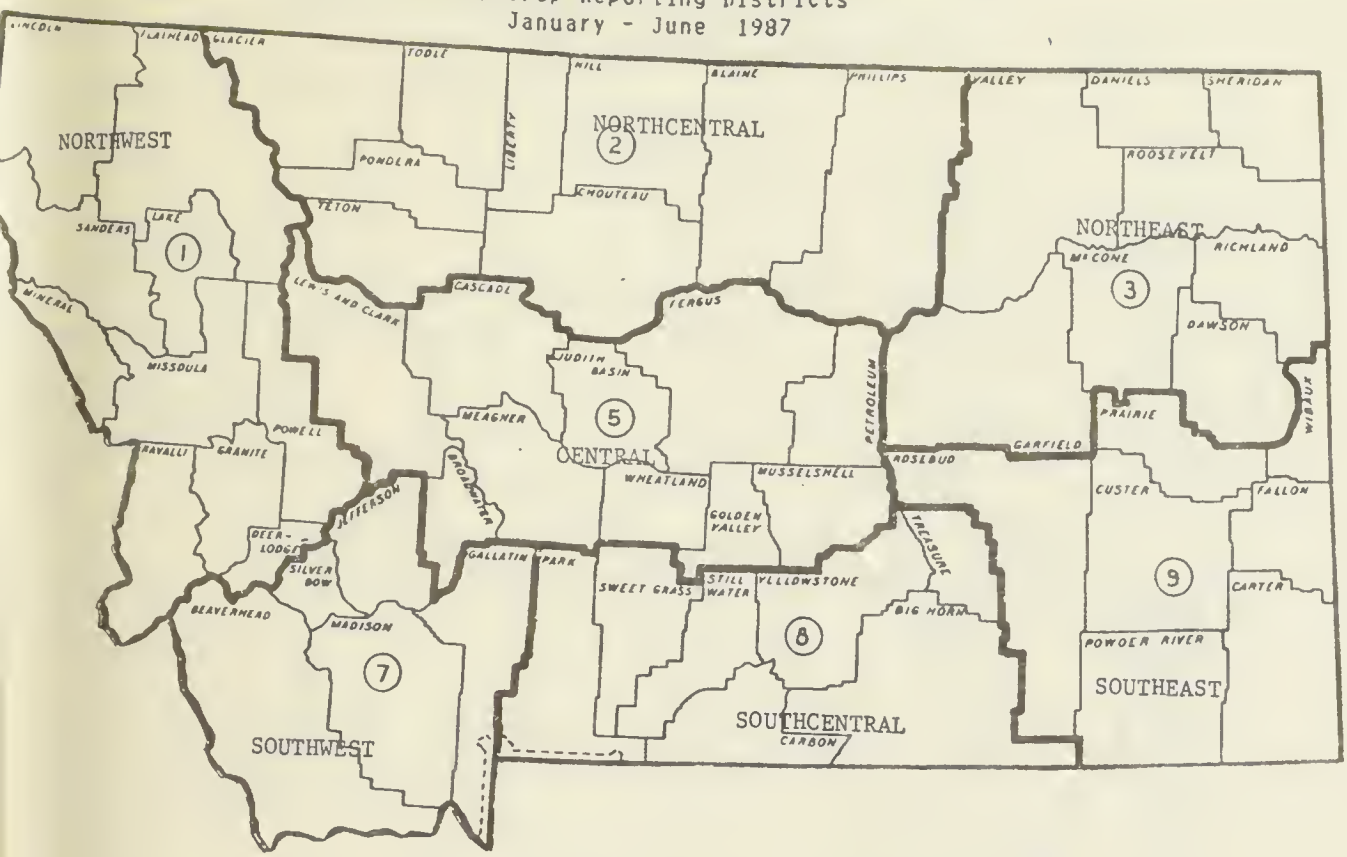
FERTILIZER SAMPLING

Year	# Samples Taken	# Samples Deficient	Deficient
1977	448	32	7.1
1978	533	30	5.6
1979	365	21	5.7
1980	506	27	5.3
1981	428	24	5.1
1982	607	41	6.7
1983	558	50	8.9
1984	379	58	15.3
1985	368	55	14.9
1986	228	43	18.9
1987	175	25	14.3

FERTILIZER TONNAGE

YEAR	TONNAGE
1972	226,939
1973	268,061
1974	219,197
1975	170,324
1976	283,925
1977	259,211
1978	301,487
1979	324,838
1980	295,958
1981	363,295
1982	384,387
1983	447,407
1984	406,567
1985	325,887
1986	337,626
1987	393,505

FERTILIZER AND FERTILIZER MATERIAL SOLD IN MONTANA
By Crop Reporting Districts
January - June 1987



STATEWIDE TOTAL	SOUTH WEST	NORTH WEST	SOUTH CENTRAL	CENTRAL	NORTH CENTRAL	SOUTH EAST	NORTH EAST	TOTALS
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Nitrogen Sols. 32%	828	488	267	785	1894	0	0	4262
Nitrogen Sols. 28%	0	0	0	42	2211	67	1334	3654
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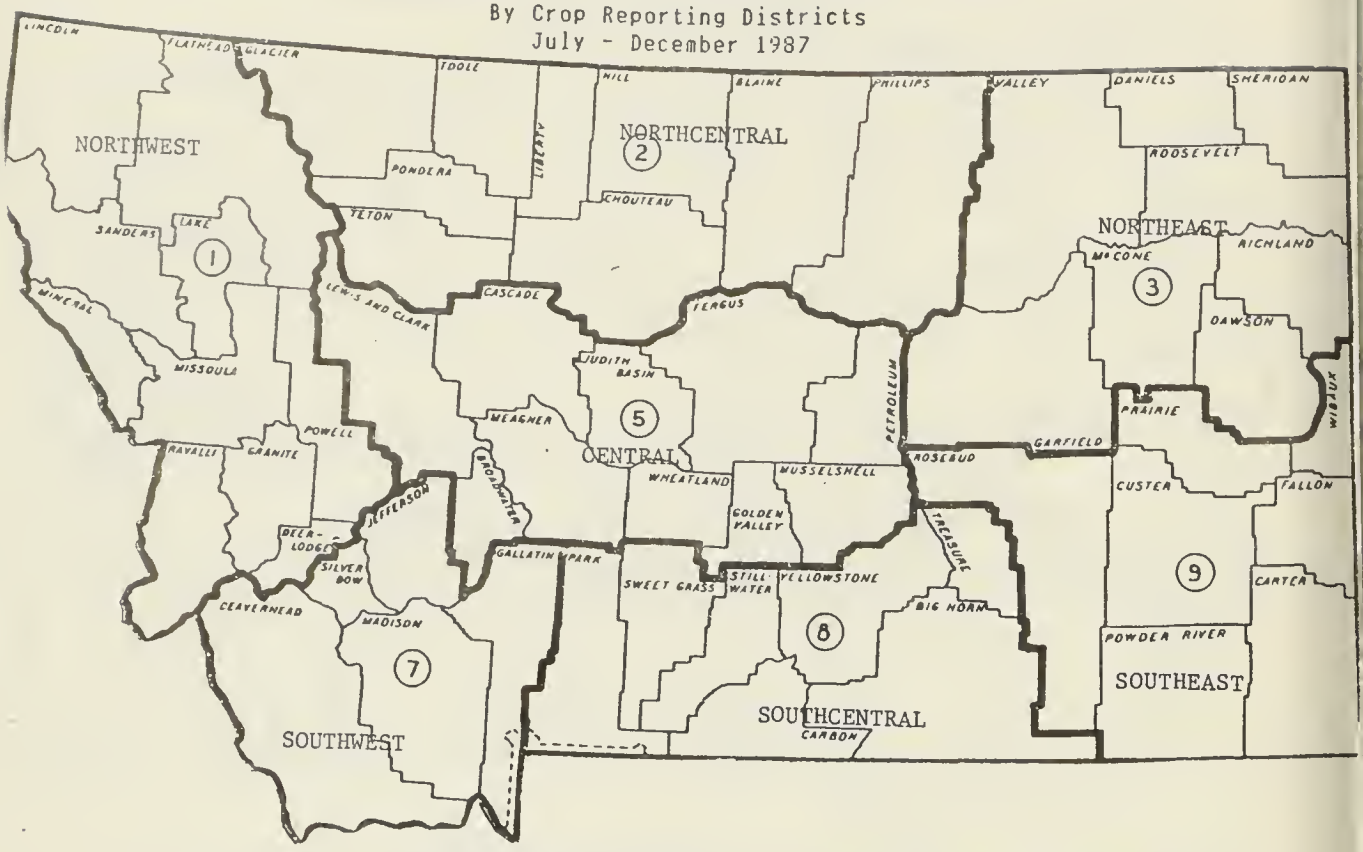
APS 16-20-0	2474	2706	1039	1498	1130	115	59	9021
30-10-0	44	0	303	400	228	0	12	987
10-34-0	87	13	60	522	4019	29	392	5122
2-1-0 ratios (27-14-0)	83	142	106	649	1058	13	2	2053
1-1-0 ratios (23-23-0)	0	0	107	11	279	0	98	495
1-1-1 ratios (16-16-16)	0	423	6	419	202	0	49	1099
Micronutrients	4	46	14	453	6	29	63	615
Gypsum/Lime	0	200	40	0	0	5	1	246
Compost	0	927	0	0	0	0	0	927
Other	0	0	37	107	919	34	19	1116
TOTAL	19860	15776	23459	51529	88051	7811	29905	236391

FERTILIZER AND FERTILIZER MATERIAL SOLD IN MONTANA
By Crop Reporting Districts
July - December 1987



STATEWIDE TOTAL	SOUTH WEST	NORTH WEST	SOUTH CENTRAL	CENTRAL	NORTH CENTRAL	SOUTH EAST	NORTH EAST	TOTALS
Anhydrous Ammonia	214	97	1345	11130	13439	279	834	27338
Ammonium Nitrate	1489	306	3206	2868	4652	73	1069	13663
Ammonium Sulfate	484	149	93	331	492	7	187	1743
Urea	1313	75	2734	7499	7565	959	2975	23120
Ammonium Thiosulfate	53	55	74	162	574	0	0	918
Nitrogen Sols. 32%	233	209	192	478	1918	0	0	3030
Nitrogen Sols. 28%	0	0	0	0	793	0	2283	3076
Phosphorus Material	177	82	215	249	2282	212	279	3496
Potash Materials	544	320	777	1135	1312	466	1350	5904
Sulfur	47	3	79	11	194	18	116	462
DAP 18-46-0	648	82	3700	3201	4459	1570	9291	22951
MAP 11-52-0	1655	303	2332	11594	13458	324	3437	33103
APS 16-20-0	1631	357	520	548	888	3	23	3970
30-10-0	4	0	97	23	0	0	10	60
10-34-0	0	17	12	622	2333	0	77	3061
2-1-0 ratios (27-14-0)	0	11	1	27	752	0	7	798
1-1-0 ratios (23-23-0)	0	0	0	115	46	0	24	185
1-1-1 ratios (16-16-16)	0	43	122	5	65	1	0	236
Micronutrients	68	31	52	30	12	18	13	198
Gypsum/Lime	0	24	10	0	0	7	1	42
Compost	0	598	0	0	0	0	0	598
Other	0	0	46	77	136	24	47	176
TOTAL	8560	2756	15413	39951	55370	3961	21997	148008

MONTANA DEPARTMENT OF AGRICULTURE
FERTILIZER AND FERTILIZER MATERIAL SOLD IN MONTANA
FOR THE YEAR
1987

MATERIAL	JAN - JUNE	JULY - DEC	TOTAL
Anhydrous Ammonia	16736	28831	45567
Ammonium Nitrate	48765	14704	63469
Ammonium Sulfate	6437	1897	8334
Urea	46044	25141	71185
Ammonium Thiosulfate	784	918	1702
Nitrogen Sols. 32%	4262	3030	7292
Nitrogen Sols. 28%	3654	3141	6795
Phosphorous Materials	5071	3496	8567
Potash Materials	13292	6185	19477
Sulfur	747	464	1211
AMMONIATED PHOSPHATES & MIXTURES			
DAP 18-46-0	29596	24686	54282
MAP 11-52-0	39322	35555	74877
APS 16-20-0	9021	3970	12991
30-10-0	987	198	789
10-34-0	5122	3061	8183
2-1-0 ratios (27-14-0)	2053	798	2851
1-1-0 ratios (23-23-0)	495	185	680
1-1-1 ratios (16-16-16)	1099	236	1335
Micronutrients	615	198	813
Gypsum/Lime	246	42	288
Compost	927	598	1525
Other	1116	176	1292
TOTAL	236391	157114	393505

MONTANA DEPARTMENT OF AGRICULTURE
PLANT INDUSTRY DIVISION
AGRICULTURE/LIVESTOCK BLDG.
CAPITOL STATION
HELENA, MT 59620

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